

Title (en)  
AUTOPILOT AND MANUAL CONTROL SWITCHING

Title (de)  
UMSCHALTUNG ZWISCHEN AUTOPILOT UND MANUELLER KONTROLLE

Title (fr)  
COMMUTATION DE COMMANDE PILOTE AUTOMATIQUE ET MANUEL

Publication  
**EP 3257745 A1 20171220 (EN)**

Application  
**EP 16305728 A 20160615**

Priority  
EP 16305728 A 20160615

Abstract (en)  
A positioning and position maintaining device comprises a solenoid (20) having an armature (22) and an electromagnetic holder (31). The solenoid (20) is arranged to effect positioning of an object upon translation of the armature (22) and the electromagnetic holder (31) is arranged to effect position maintaining in order to maintain the object in the position effected by the solenoid (20). An apparatus for aircraft autopilot and manual control feel-force control switching comprises an autopilot mechanism (10) and the positioning and position maintaining device. The positioning and position maintaining device is arranged to engage the autopilot mechanism (10) and maintain the engagement thereof. A method of switching between autopilot and manual control in an aircraft is also envisaged.

IPC 8 full level  
**B64C 13/22** (2006.01); **B64C 13/10** (2006.01); **B64C 13/16** (2006.01); **B64D 31/04** (2006.01); **B64D 31/06** (2006.01)

CPC (source: CN EP RU US)  
**B64C 13/00** (2013.01 - RU); **B64C 13/02** (2013.01 - CN); **B64C 13/044** (2018.01 - EP US); **B64C 13/18** (2013.01 - RU); **B64C 13/22** (2013.01 - EP US); **B64D 31/00** (2013.01 - RU); **G05G 5/04** (2013.01 - US); **G05G 9/047** (2013.01 - RU); **H01H 50/20** (2013.01 - US); **H01H 50/44** (2013.01 - US); **B64C 13/16** (2013.01 - EP US); **B64D 31/04** (2013.01 - EP US); **B64D 31/06** (2013.01 - US); **Y02T 50/40** (2013.01 - EP US)

Citation (search report)  
• [XA] US 3081968 A 19630319 - PESOLA RAYMOND H  
• [X] US 2012076629 A1 20120329 - GOFF JONATHAN ANDREW [US], et al  
• [A] GB 2484830 A 20120425 - WOODWARD MPC INC [US]

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
**EP 3257745 A1 20171220**; **EP 3257745 B1 20190529**; BR 102017012461 A2 20180109; CA 2971031 A1 20171215; CN 107521666 A 20171229; CN 107521666 B 20230203; RU 2017118166 A 20181126; RU 2017118166 A3 20200918; RU 2744833 C2 20210316; US 10926866 B2 20210223; US 2017361921 A1 20171221

DOCDB simple family (application)  
**EP 16305728 A 20160615**; BR 102017012461 A 20170612; CA 2971031 A 20170614; CN 201710468650 A 20170615; RU 2017118166 A 20170525; US 201715616005 A 20170607